

FIGURE 2

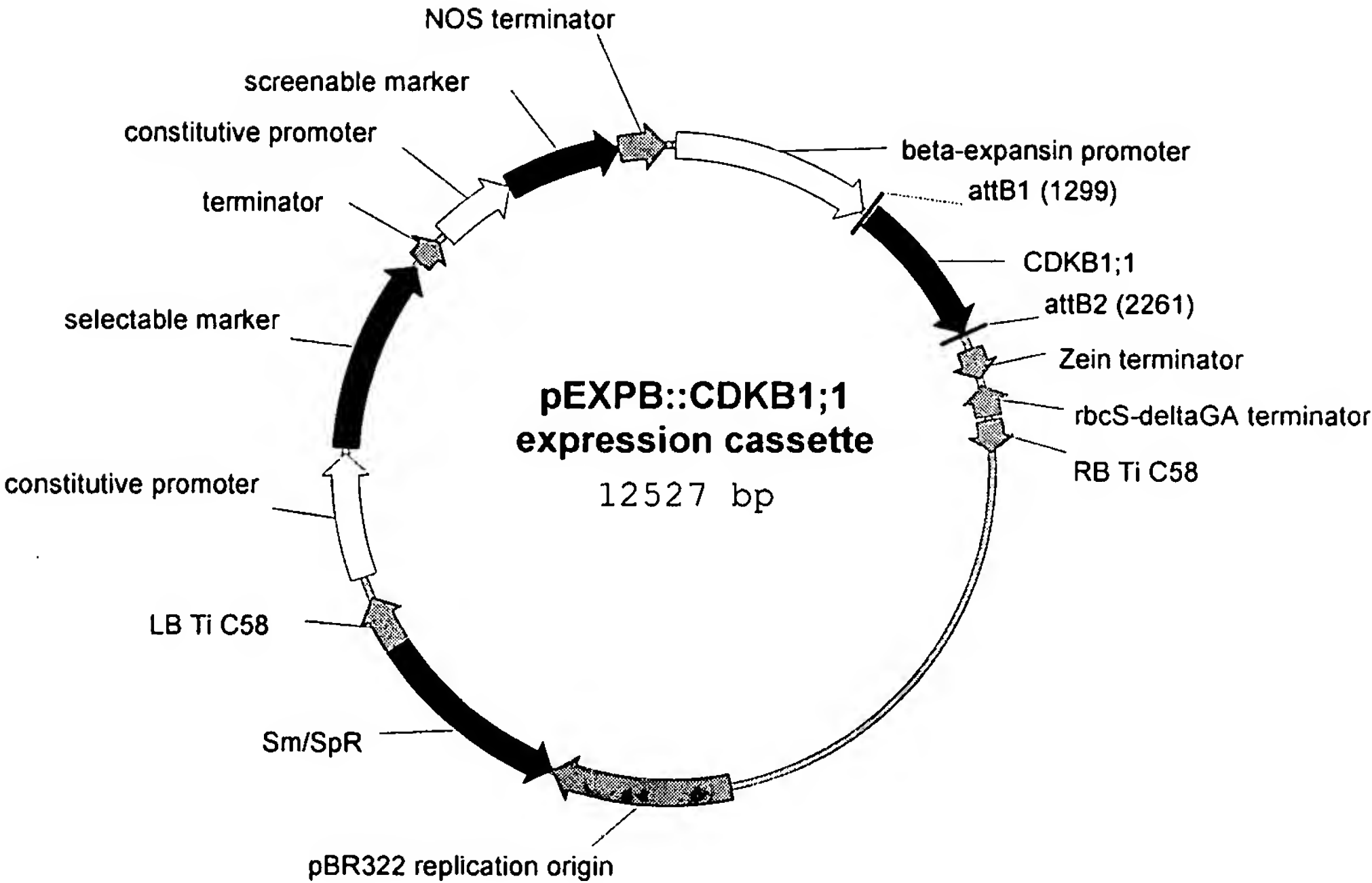


FIGURE 3

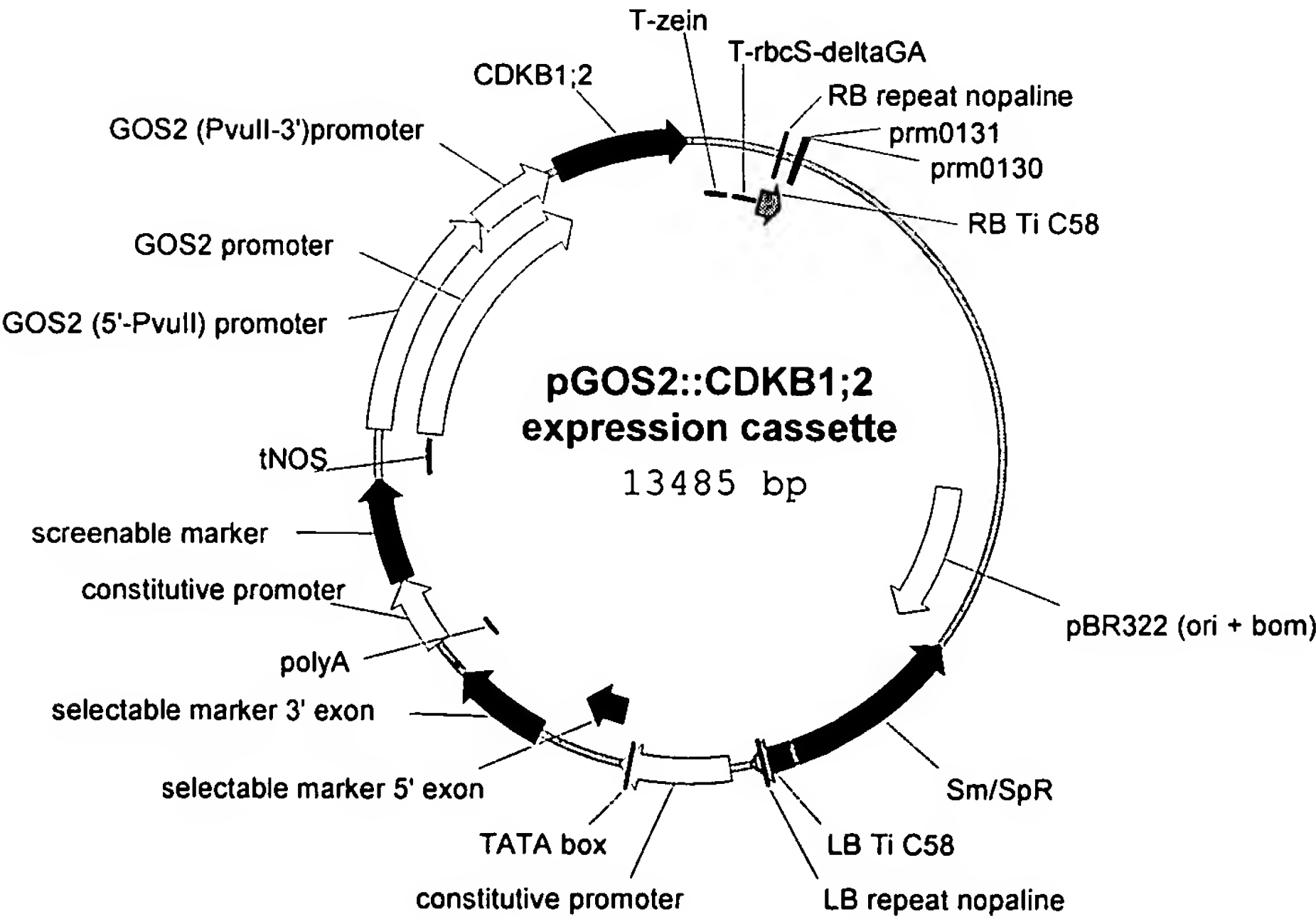


FIGURE 4

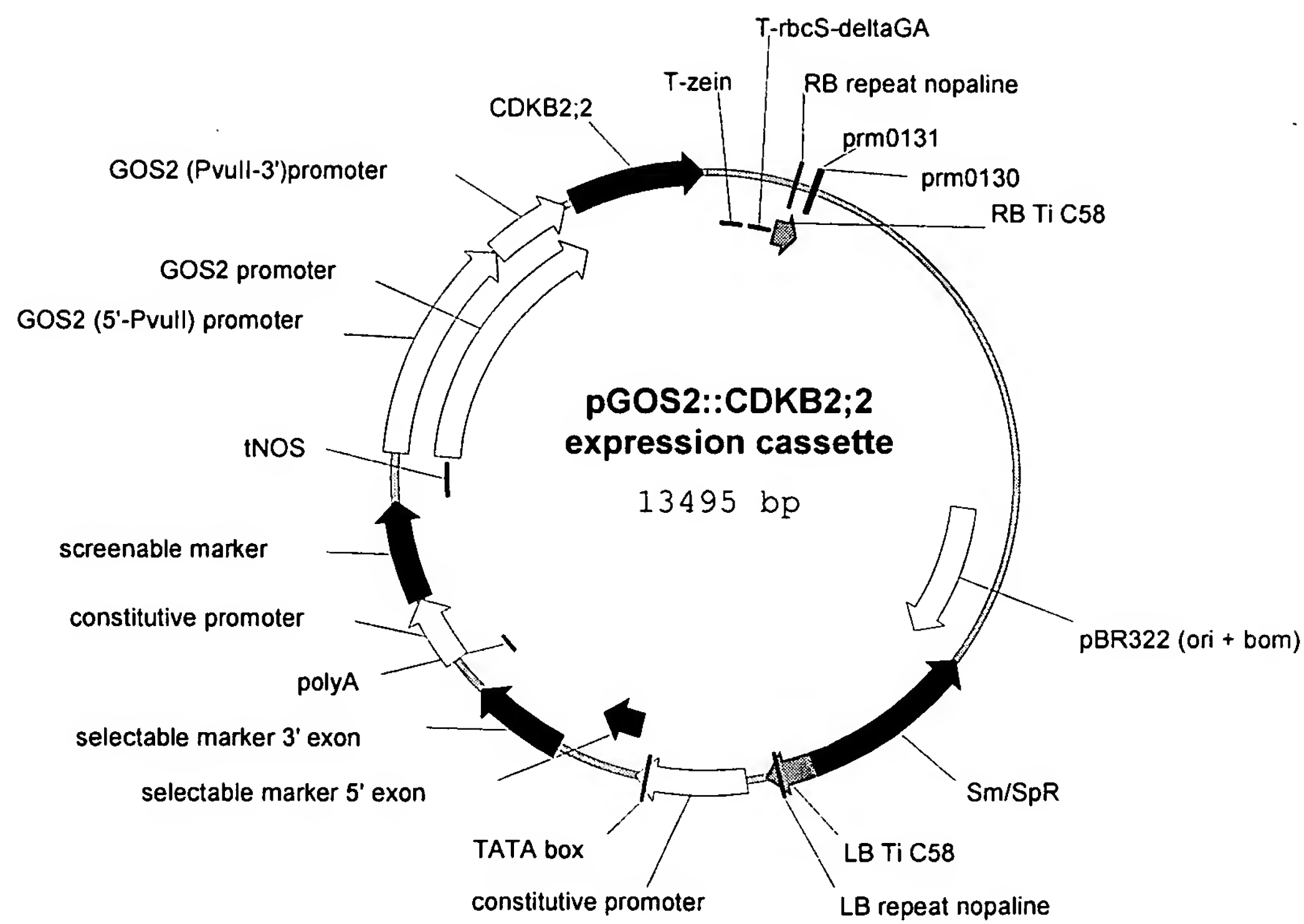


FIGURE 5

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SEQ ID NO 1: DNA sequence of CDK B 1;1

atggagaagtagcagaagctagagaagggtcggagaaggaacatacgggaaagtctacaaagc
gatggagaaaggaactggtaagcttggtgctctgaagaaaactcgtctcgagatggacgaag
aaggattccaccaactgctcttcgtgagatctcgcttctccagatggttatcaacatcgatc
tatggtggtcgattactctgcgtcgaacatggtcatcaaccatcaaccaaattctcaatctac
caaatccaatctctatctcgttttcgagtatctcgatactgatcttaagaaattcatcgatt
cgtataggaaaggacctaatacctaagcctcttgagccttttttgattcagaagttgatgttt
cagctttgtaaagggtggtgcgcatgtgtcatagtcattggtgtgcttcaccgtgatcttaaacc
gcagaatcttcttctggtgaaagataaagagcttcttaagattgctgatttgggtcttggtc
gtgcttttactgttcttcttaagtcttatacgcattgagattgttactctttggtatagagct
cctgaagttcttcttggtatctactcattattcaactggtggttgacatgtggtctgttggtg
tatctttgctgagatgggttcggaggcaagctcttttccctggtgattctgagtttcagcaat
tgcttcatactctcaggttgctaggaacaccaactgagcagcaatggccgggtgtttccaca
ctgctgactggcatgtttaccctaagtgggagccgcaagacttaactcttgctgttccttc
tctttcacctcaaggagttgatcttctcacgaaaatgctcaagtacaatccagccgaaagaa
tttcagcaaaaacagcacttgatcacccatattttgacagccttgacaagtctcagttctga

SEQ ID NO 2: Protein sequence of CDK B 1;1

MEKYEKLEKVGEGTYGKVYKAMEKGTGKLVALKKTRLEMDEEGIPPTALREISLLQMLSTSI
YVVRLLCVEHVHQPSTKSQSTKSNLYLVFEYLDLTKKFIDSYRKGNPKPLEPFLIQKLMF
QLCKGVAHCHSHGVLHRDLKPQNLLLVKDKELLKIADLGLGRAFTVPLKSYTHEIVTLWYRA
PEVLLGSTHYSTGVDMWSVGCIFAEMVRRQALFPGDSEFQQLLHIFRLLGTPTEQQWPGVST
LRDWHVYPKWEPQDLTLAVPSLSPPQGVDLLTKMLKYNPAERISAKTALDHPYFDSLDKSQF

SEQ ID NO 3: DNA sequence of CDK B 1;2

atggagaaatacagaagctcgaaaagggtcggatgaaggaacctatggaaaagtctacaaagc
aatggagaaaaccaccggaaaactcgtcgctctgaagaaaactaggctcgaaatggacgaag
aaggatataccaccaacggctctccgtgagatctctcttctccaaatgctttctcaatcaatc
tacatcggttcgtctcctctgcgtcgaacatggttattcaatcgaaagattcgactgtttctca
ctctcccaaatccaatctctatctcgtttttgagtatctcgacactgatctcaagaaattta
tagattctcatagaaagggtcgaatcctagaccgcttgaggcttctcttggtgcagagggtt
atgtttcagcttttttaaagggtgtgggtcattgtcatagccatgggtgtgcttcaccgtgatct
taaaccgcagaatcttctattggataaggataaagggtattcttaagattgctgatttgggtc
ttagtcgtgcttttactgtgcctcttaaggcttatacacatgagattgttactctttggtat
agagctcctgaagttttgcttggttctactcattactctactgctgttgatatttggtctgt
tggtatgcatctttgccgagatgattaggaggcaagctcttttccctggtgattctgagtttc
agcaactacttcatattttcagattgttaggaacaccaactgagcagcaatggccgggtgta
atggcattgctgactggcatgtctatccaaagtgggagccgcaagacttatcacgtgctgt
tccatctctatctcctgaagggaattgatcttctcacgcaaattgttgaagtacaatccagcag
aaagaatttcagcaaaaagcagctctcgatcatccctactttgacagccttgacaaatctcag
ttctga

FIGURE 6

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SEQ ID NO 4: Protein sequence of CDK B 1;2

MEKYEKLEKVGEPTYGKVYKAMEKTTGKLVALKKTRLEMDEEGIPPTALREISLLQMLSQSI
YIVRLLCVEHVIIQSKDSTVSHSPKSNLYLVFEYLDTDLKKFIDSHRKGSNRPLEASLVQRF
MFQLFKGVAHCHSHGVLHRDLKPQNLLLDKDKGILKIADLGLSRAFTVPLKAYTHEIVTLWY
RAPEVLLGSTHYSTAVDIWSVGCIFAEMIRRQALFPGDSEFQQLLHIFRLLGTPTEQQWPGV
MALRDWHVYPKWEPQDLSRAVPSLSPEGIDLLTQMLKYNPAERISAKAALDHPYFDSLDKSQ
F

SEQ ID NO 5: DNA sequence of CDK B 2;2

atggacaacaatggagttaaacccgctgtttccgccatggaagcctttgaaaagcttgagaa
agtaggtgaagggacttatgggaaagtttacagagcaagagagaaaagctactgggatgatcg
ttgctttgaagaagacgcgtctccatgaggatgaagaaggtgttcctcccactactcttcgc
gagatctctatcttgcgatgctcgcctcgatcctcacatcgtaggttgatggatggttaa
gcaaggaataaacaagaaggaaaaactgtactttaccttgttttcgagtatggtgatactg
atctcaagaaattcatcagaagctttcgtcaagctggacagaaacattccacaaaatactgtc
aagtgcttgatgtaccagttatgcaaaggcatggctttttgccatgggtcatggagtgttgca
cagggatcttaagcctcacaatctcttgatggaccggaagacaatgacgctcaaaatagcag
atcttggttagccagagccttcactctcccaatgaaaaagtatacacatgagattctaact
ctatggtatagagctccggaagttcttcttgaggcaacccattactctactggagtggatat
gtggtctgttggtgtatttttgctgaactagtgaaccaagcaagcaatctttgcgggagact
ctgagctccaacagctcctccgtatattcaggttgttggaacaccaaacgaagaagtttg
cctggagtaagcaaactcaaggactggcatgaatacccgcaatggaaaccggttgagtctctc
cacagctgtgccaaacctcgacgaggctggacttgatctcttatctaaaatgctggagtacg
agccagcaaaacgaatctcagcaaagaagctatggagcatccttacttcgatgatttgcct
gacaagtcctctctctga

SEQ ID NO 6: Protein sequence of CDK B 2;2

MDNNGVKPAVSAMEAFEKLEKVGEPTYGKVYRAREKATGMIVALKKTRLHEDEEGVPPTTLR
EISILRMLARDPHIVRLMDVKQGINKEGKTVLYLVFEYVDTDLLKKFIRSFRQAGQNI PQNTV
KCLMYQLCKGMAFCHGHGVLHRDLKPHNLLMDRKTMTLKIADLGLARAF TLPMKKYTHEILT
LWYRAPEVLLGATHYSTGVDMWSVGCIFAELVTKQAI FAGDSELQQLLRIFRLLGTPNEEVW
PGVSKLKDWHYEPQWKPLSLSTAVPNLDEAGLDLLSKMLEYEPAKRISAKKAMEHPYFDDL
DKSSL

FIGURE 6 (continued)

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SEQ ID NO 7: DNA sequence of CDK A;1 (*Oryza sativa*)

acctctcctccgattaatccccctccccctcctcttctcctcccacttctgcgccctgctcttcctc
 ccctcgccgaccctacctaactcgcgccgcccgcgtcgcatattgggaggcgaacggagggggggg
 ttaaccctgatggagcagtagcagaaggaggagaagattggggaggggcacgtacgggggtggt
 gtacagggcgcggggacaagggtcaccaacgagacgatcgcgctcaagaagatccggcttgagc
 aggaggatgagggcggtccccctccaccgcaatccgcgagatctcgctcctcaaggagatgcat
 cacgggaacatcgtcaggttacacgatgttatccacagtgagaagcgcatatatcttgctctt
 tgagtatctggatctggacctaaagaagttcatggactcttggtccagagtttgcgaaaaacc
 ccactttaattaagtcatatctctatcagatactccgcggcggttgcttactgtcattctcat
 agagttcttcatcgagatttgaaacctcagaatttattgatagatcggcgactactaatgcact
 gaagcttgcagactttgggttagccaggggcatttggaattcctgtccgcacgtttactcacg
 aggttgtaaccttggtggtatagagctccagagatccttcttggtatcaaggcagattctaca
 ccagttgatattgtggtcagttggttggtatcttgcagaaatggtgaaccagaaaccactgtt
 ccctggtgattctgagattgatgaattatttaagatattcaggggtactaggaactccaaatg
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 gcacaggatcttgcaactattgtccctactcttgaccctgctgggtttggaccttctctctaa
 aatgcttcggtacgagccaaacaaaaggatcacagctagacaggctcttgagcatgaatact
 tcaaggaccttgagatggtacaatgacctgctatgggtttacattggattggcatatgtat
 gggctgggctcctcatttcattccttctgtgaacgctgtgccccttcgtttgggcatttttg

SEQ ID NO 8: Protein sequence of CDK A;1 (*Oryza sativa*)

MEQYEKEEKIGEGTYGVVYRARDKVTNETIALKKIRLEQEDEGVPSTAIRESLLKEMHHGN
 IVRLHDVIHSEKRIYLVFEYLDLKKFMDSCPEFAKNPTLIKSYLYQILRGVAYCHSHRVL
 HRDLKPQNLLIDRRTNALKLADFGFLARAFGIPVRTFTHEVVTLWYRAPEILLGSRQYSTPVD
 MWSVGCIFAEMVNQKPLFPGDSEIDELFKIFRVLGTPNEQSWPGVSSLPDYKSAFPKWQAQD
 LATIVPTLDPAGLDLLSKMLRYEPNKRITARQALEHEYFKDLEMVQ

SEQ ID NO 9: Protein sequence of Mutant 1 of CDK A;1

MEQHEKEEKIGEGTYGVVYRARDKVTNETIALKKIRLEQEDEGVPSTAIRESLLKEMHHGN
 IVRLHDVIHSEKRIYLDFFEYLDLKKFMDSCPEFAKNPTLIKSYLYQILRGVAYCHSHRVL
 HRDLKPQNLLIDRRTNALKLADFGFLARTFGIPVRTFTHEVVTLWYRAPEILLGSRQYSTPVD
 MWSVGCIFAEMVNQKPLFPGDSEIDELFKIFRVLGTPNEQSWPGVSSLPDYKSAFPKWQAQD
 LATIVPTLDPAGLDLLSKMLRYEPNKRITARQALEHEYFKDLEMVQ

SEQ ID NO 10: Protein sequence of Mutant 2 of CDK A;1

MEQYEKEEKIGEGTYGVVYRARDKVTNETTALKKIRLEQEDEGVPSTAIRESLLKEMHHGN
 IVRLHDVIHSEKRIYLVFEYLDLKKFMDSCPEFAKNPTLIKSYLYQILRGVAYCHSHRVL
 HRDLKPQNLLIDRRTNALKLADFGFLARAFGIPVRTFTHEVVTLWYRAPEILLGSRQYSTPVD
 MWSVGCIFAEMVNQKPLFPGDSEIDELFKIFRVLGTPNEQSWPGVSSLPDYKSAFPKWQAQD
 LATIVPTLDPAGLDLLSKMLRYEPNKRITARQALEHEYFKDLEMVQ

FIGURE 6 (continued)

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SEQ ID NO 11: Protein sequence of Mutant 3 of CDK A;1

MEQYVKEEKIGEGTYGVVYRARDKVTNETIALKKIRLEQEDEGVPSTAIRESLLKEMHHGN
 IVRLHDVIHSEKRIYLVFEYLDLDLKKFMDSCPEFAKNPTLIKSYLYQILRGVAYCHSHSVL
 HRDLKPQNLLIDRRTNALELADFGGLARAFGIPVRTFTHEVVTLWYRAPEILLGSRQYSTPVD
 MWSVGCIFAEMVNQKPLFPDSEIDELFKIFRVLGTPNEQSWPGVSSLPDYKSAFPKWQAQD
 LATIVPTLDPAGLDLLSKMLRYEPNKRITARQALEHEYFKDLEMVQ

SEQ ID NO 12: Protein sequence of Mutant 4 of CDK A;1

MEQYEKEEKIGEGTYGVVYRARDKVTNETIALKKIRLEQEDEGVPSTAIRESLLKEMHHGN
 IVRLHDVIHSEKRIYLVFEYLDLDLKKFMDSCPEFAKNPTLIKSYLYQILRGVAYCHSHRVL
 HRDLKPQNLLIDRRTNALKLADFGGLARAFRIPVRTFTHEVVTLWYRAPEILLGSRQYSTPVD
 MWSVGCIFAEMVNQKPLFPDSEIDELFKIFRVLGTPNEQSWPGVSSLPDYKSAFPKWQAQD
 LATIVPTLDPAGLDLLSKMLRYEPNKRITARQALEHEYFKDLEMVQ

SEQ ID NO 13: Protein sequence of Mutant 5 of CDK A;1

MEPYEKEEKIGEGTYGVVYRARDKVTNETIALKKIRLAQEDEGVPSTAIRESLLKEMHHGN
 IVRLHDVIHSEKRIYLVFEYLDLDLKKFMDSCPEFAKNPTLIKSYLYQILRGVAYCHSHRVL
 HRDLKPQNLLIDLRTNALKLADFGGLARAFGIPVRTFTHEVVTLWYRAPEILLGSRQYATPVD
 MWSVGCTFAEMVNQKPLFPDSEIDELFKIFRVLGTPNEQSWPGVSSLPDYKSAFPKWQAQD
 LATIVPTLDPAGLDLLSKVLRYEPNKRITAQQALEHEYFKDLEMVQ

SEQ ID NO 14: DNA sequence of beta-expansin promoter EXPB8

aaaaccaccgagggacctgatctgcaccggttttgatagttgagggacccggttggtctggt
 tttccgatcgagggacgaaaatcggttcggtgtaaagttaaggacctcagatgaacttat
 tccggagcatgattgggaagggaggacataaggcccatgtcgcgtggtttggacggtccag
 atctccagatcactcagcaggatcgcccgcttcgcgtagcaccgcggtttgattcggctt
 cccgcaaggcggcggcgggtggccgtgccgcgtagcttccgccggaagcgagcacgccgcc
 gccgccgacccggctctgcgtttgcaccgccttgcacgcgatacatcgggatagatagctac
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 gaatatagacatatatatctatttagattcattaacatcaatatgaatgtaggaaatgctag
 aatgacttacattgtgaattgtgaaatggacgaagtaacctacgatggatggatgcaggatca
 tgaaagaattaatgcaagatcgtatctgccgcgtgcaaaatcttactaattgcgctgcatat
 atgcatgacagcctgcatgcgggcgtgtaagcgtgttcatccattaggaagtaaccttgctca
 ttacttataccagtactacatactatatagtattgatttcatgagcaaatctacaaaactgg
 aaagcaataagaaatacgggactggaaaagactcaacattaatcaccaaatatttcgccttc
 tccagcagaatatatatctctccatcttgatcactgtacacactgacagtgtacgcataaac
 gcagcagccagcttaactgtcgtctcaccgtcgcacactggccttccatctcaggctagctt
 tctcagccacccatcgatcatgtcaactcggcgcgcgcacaggcacaattacgtacaaaac
 gcatgaccaaatacaaacaccgggagaagaatcgctcccgcgcgcgggcgacgcgcacgt
 acgaacgcacgcacgcacgcccacccacgacacgatcgcgcgcgacgccggcgacaccgg
 ccgtccacccgcgcctcacctcgccgactataaatacgtaggcatctgcttgatcttgtca
 tccatctcaccaccaaaaaaaaaaaggaaaaaaaaaacaacacaccaagccaaataaaagcg
 aca

FIGURE 6 (continued)

SEQ ID NO 15: DNA sequence of GOS2 promoter

aatccgaaaagtttctgcaccgttttcaccccctaactaacaatataggggaacgtgtgctaa
atataaaatgagaccttatatatgtagcgctgataactagaactatgcaagaaaaactcatc
cacctacttttagtggcaatcgggctaaataaaaaaagagtcgctacactagtttcgttttcct
tagtaattaagtgggaaaatgaaatcattattgcttagaatatacgttcacatctctgtcat
gaagttaaattattcgaggtagccataattgtcatcaaactcttcttgaataaaaaaatctt
tctagctgaactcaatgggttaaagagagagatttttttttaaaaaaatagaatgaagatattc
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tatcgcacatcattaaggacatgtcttactccatcccaattttttatttagtaattaaagaca
attgacttattttttattatttattcttttttcgattagatgcaagggtacttacgcacacactt
tgtgctcatgtgcatgtgtgagtgacacctcctcaatacacggttcaactagcaacacatctct
aatatcactcgcctattttaatacatttaggttagcaatatctgaattcaagcactccaccatc
accagaccactttttaataatatctaaaatacaaaaaaataatttttacagaatagcatgaaaag
tatgaaacgaactatttaggtttttcacatacaaaaaaaaaaagaattttgctcgtgcgcga
gcgccaatctcccatattggggcacacaggcaacaacagagtggtgcccacagaacaacca
caaaaaacgatgatctaacggaggacagcaagtccgcaacaaccttttaacagcaggctttg
cggccaggagagaggaggagaggcaaagaaaaccaagcatcctcctcctcccatctataaat
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aggacacgcgactagcagaagccgagcgaccgccttcttcgatccatatcttccggtcgagt
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ttggatttattgttctaggttgtgtagtacgggcgttgatgttaggaaaggggatctgtatc
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cggtttgattagtagtatggttttcaatcgtctggagagctctatggaaatgaaatggttta
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atttgacgaagctatcctttgtttattccctattgaacaaaaataatccaactttgaagacg
gtcccgttgatgagattgaatgattgattcttaagcctgtccaaaatttcgcagctggcttg
tttagatacagtagtcccatcacgaaattcatggaaacagttataatcctcaggaacaggg
gattccctgttcttccgatttgcttttagtcccagaattttttttcccaaatatcttaaaaag
tcactttctgggttcagttcaatgaattgattgctacaaataatgcttttatagcgttatcct
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atTTTTTTTTtagctctcacccttcattattctgagctgaaagtctggcatgaactgtcct
caattttgttttcaaattcacatcgattatctatgcattatcctccttgatctacctgtaga
agtttctttttggttattccttgactgcttgattacagaaagaaatttatgaagctgtaatc
gggatagttatactgcttggttcttatgattcatttcctttgtgcagttcttggtgtagcttg
ccactttcaccagcaaagttc

SEQ ID NO 16: DNA sequence of sense primer prm0350

ggggacaagtttgtacaaaaaagcaggcttcacaatggagaagtacgagaagctaga

FIGURE 6 (continued)

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SEQ ID NO 17: DNA sequence of antisense primer prm0351

ggggaccactttgtacaagaaagctggggttcagaactgagacttgtcaagg

SEQ ID NO 18: DNA sequence of sense primer prm439

ggggacaagtttgtacaaaaaagcaggcttcacaatggagaaatacgagaagctc

SEQ ID NO 19: DNA sequence of antisense primer prm440

ggggaccactttgtacaagaaagctgggtggtcagaactgagatttgtc

SEQ ID NO 20: DNA sequence of sense primer prm2213

ggggacaagtttgtacaaaaaagcaggcttcacaatggacaacaatggagttaa

SEQ ID NO 21: DNA sequence of antisense primer prm2214

ggggaccactttgtacaagaaagctggggttcagagagaggacttgtcag

FIGURE 6 (continued)

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CDKB2.1 MDEG--VIAVSAMDAFEKLEKVGEPTYGKVYRAREKATGKI VALKKTRLHEDEEGVPSTT 58
CDKB2.2 MDNNGVKPAVSAMEAFEKLEKVGEPTYGKVYRAREKATGMIVALKKTRLHEDEEGVPPTT 60
CDKB1.1 -----MEKYEKLEKVGEPTYGKVYKAMEKGTGKLVALKKTRLEMDEEGIPPTA 48
CDKB1.2 -----MEKYEKLEKVGEPTYGKVYKAMEKTTGKLVALKKTRLEMDEEGIPPTA 48
          *: :*****: * * * :*****. ****:*. *:

CDKB2.1 LREISILRMLARDPHVRLMDVKQGLSK-----EGKTVLYLVFEYMDTDVKKFIRSFR 111
CDKB2.2 LREISILRMLARDPHIVRLMDVKQGINK-----EGKTVLYLVFEYVDTDLKKFIRSFR 113
CDKB1.1 LREISLLQMLSTSIYVVRLLCVEHVHQP--STKSQSTKSNLYLVFEYLDTDLKKFIDSFR 106
CDKB1.2 LREISLLQMLSQSIYIVRLLCVEHVIQSKDSTVSHSPKSNLYLVFEYLDTDLKKFIDSHR 108
          *****:*.***: . :****: *:: . . *: *****:****:**** *. *

CDKB2.1 STGKNIPTQT--IKSLMYQLCKGMAFCHGHGILHRDLKPHNLLMDPKTMRLKIADLGLAR 169
CDKB2.2 QAGQNI PQNT--VKCLMYQLCKGMAFCHGHGVLHRDLKPHNLLMDRKTMTLKIADLGLAR 171
CDKB1.1 KGPNPKEPFLIQKLMFQLCKGVAHCHSHGVLHRDLKPNLLLVKDKELLKIADLGLGR 166
CDKB1.2 KGSNRPLEASLVQRFMFQFKGVAHCHSHGVLHRDLKPNLLLDKDKGILKIADLGLSR 168
          . : * :. : :*:** *:*.**.**:*****:****: .. *****.*

CDKB2.1 AFTLPMKKYTHEILTLWYRAPEVLLGATHYSTAVDMWSVGCIFAELVTNQAI FQGDSELQ 229
CDKB2.2 AFTLPMKKYTHEILTLWYRAPEVLLGATHYSTGVDMWSVGCIFAELVTKQAI FAGDSELQ 231
CDKB1.1 AFTVPLKSYTHEIVTLWYRAPEVLLGSTHYSTGVDMWSVGCIFAEMVRRQALFPGDSEFQ 226
CDKB1.2 AFTVPLKAYTHEIVTLWYRAPEVLLGSTHYSTAVDIWSVGCIFAEMIRRQALFPGDSEFQ 228
          ***:*. * *****:*****:*****.**:*****:*. :.***: * *****: *

CDKB2.1 QLLHIFKLFGTPNEEMWPGVSTLKNWHEY PQWK PSTLSSAVPNLDEAGVDLLSKMLQYEP 289
CDKB2.2 QLLRIFRLLGTPNEEVWPGVSKLKDWEY PQWK PLSLSTAVPNLDEAGLDLLSKMLEYEP 291
CDKB1.1 QLLHIFRLLGTPTEQQWPGVSTLRDWHVY PKWEPQDLTLAVPSLSPQGVDDLTKMLKYNP 286
CDKB1.2 QLLHIFRYL-----LLVFDANVY-VYRNQFRTLAH----- 257
          ***:***: : : : * :. : *

CDKB2.1 AKRISAKMAMEHPYFDDLPEKSSL 313
CDKB2.2 AKRISAKKAMEHPYFDDLDPKSSL 315
CDKB1.1 AERISAKTALDHPYFDSLDSQSQF- 309
CDKB1.2 -----

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FIGURE 7